Symbol of leadership for 25 years

This year, the Hallicrafters Company is celebrating its 25th year of service to the amateur radio field with renewed dedication to providing amateurs with *the ultimate in progressive, high quality communications equipment.*

Through the last quarter-century, adherence to this principle has resulted in *more than 100 major Hallicrafters designs.*

In the years to come, we pledge even greater effort; for creative engineering and quality of product always will be the true measures of leadership.

The Hallicrafters Company

4401 West Fifth Avenue, Chicago 24, Illinois

In our 25th year of service

The new ideas in amateur radio are born at . . .

New! hallicrafters "2 and 6"

World's first complete two and six meter radio station... features transistorized, built-in power supply for mobile or portable application

Your signal is *crystal* clear!

- **Exclusive high frequency 5.0 mc. quartz crystal filter cuts unwanted sideband 50 db. or more.**
- **Exclusive patented Bridged-Tee modulator; temperature stabilized and compensated.**

Powerhouse– new version!

- **Ceramic power tubes for greater dependability.**
- **Six amateur bands—80, 40, 20, 15, 11-10 meters.**

Ideal DX receiver!

- **Three short-wave bands plus standard broadcast.**
- **Separate bandspread tuning condenser, crystal filter, S-Meter, antenna trimmer.**

You receive the most– including value!

- **Selectable sideband operation.**
- **Tee-Notch filter for outstanding rejection of unwanted heterodyne.**

Weigh *this* one against all comers!

- **Utmost mechanical and electrical stability.**
- **Exclusive patented crystal controlled upper/lower sideband selection.**

All specifications subject to change without notice.

COMPLETE SPECIFICATIONS

General description: The SR-34 is designed for either AM or CW and combines, for the first time in one compact package, the complete functions of a two *and* six meter radio station. It operates on 115-V. A.C., 6-V. D.C., or 12 V. D.C. and features a highly efficient transistorized power supply for the 6 and 12 volt operation.

Exclusive features: The perfect unit for short-range portable, fixed or mobile communication, the SR-34 meets—and exceeds—F.C.D.A. matching-fund specifications. The crystal sockets and transmitter tuning controls are concealed behind a panel which may be sealed to prevent tampering. Instantaneous selection of desired voltage possible and also "crossbanding" between the two and six meter bands. The specially designed cover has mounting clips for two-band antenna, owner's microphone, and cords.

Both receiver and transmitter may be used for C.W.; key jack and adjustable B.F.O. are provided. Drip-proof case is specially designed for safe outdoor use.

The transmitter is crystal-controlled; up to four crystals may be switch-selected. A fifth position on this switch permits external V.F.O. operation. Band selection also is front-panel controlled.

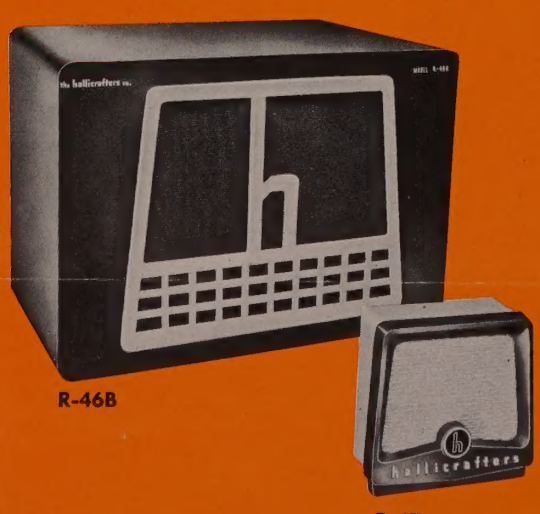
The receiver is a double conversion superheterodyne, having a quartz crystal controlled second oscillator. This offers outstanding selectivity and high image rejection. Highest stability is obtained through separate oscillator and R.F. sections for each band.

All receiver functions provided—S-meter B.F.O., ANL, etc. Sensitivities average 1 microvolt on both bands. Transistorized power supply eliminates noisy, erratic operation encountered with vibrator-type power supplies.

Front Panel Controls: *Receiver:* Band Selector (49-54 mc., 143.5 to 148.2 mc.); Main Tuning; Sensitivity; Audio Volume; B.F.O. Pitch; Squelch Level; Headphone Jack. *Transmitter:* Function Switch (P.A., Rec., Cal., AM, CW); Power On/Off; Band Switch; Crystal Selector and V.F.O.; Oscillator Tuning; Doubler Tuning; Tripler Tuning; Final Tuning; Final Loading; Meter Switch.

Power output: 6 to 7½ watts on 2 meter, and 7 to 10 watts on 6 meter AM or CW, 100% mod. negative peak clipping. *Rear Apron:* Speech input level control; key jack; P.A. speaker terminals; mic. selector (high Z or carbon); mic. input; A.C. and D.C. fuses; power plug.

Features That Speak For Themselves!



R-46B

R-47

MODEL R-46B: Precision-built communications speaker. This 10" PM speaker is the matching unit for any Hallicrafters or other receiver having a 3.2 ohm output. Featuring an 80 to 5000 cycle range and 3.2 ohm speaker voice coil impedance. Gray black steel cabinet measuring 15" wide x 10⅞" high x 10⅞" deep. Shipping weight approximately 15 lbs.

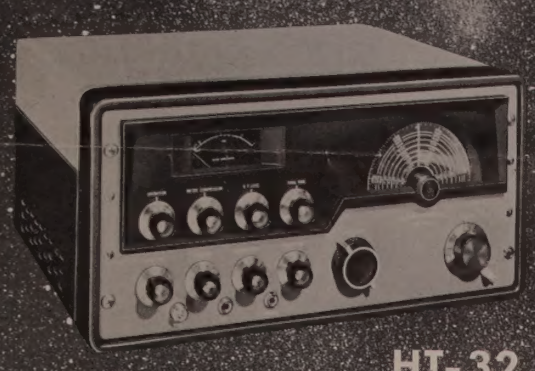
MODEL R-47. Brand new, and especially designed for superior SSB and other voice applications. This compact, handsomely styled speaker has essentially flat response from 300 to 2850 c.p.s., drops off rapidly in output beyond cut off points. Perfect match for SX-99, SX-100 and SX-101 receivers. Input impedance: 3.2 ohms. Dimensions: 5½"x5¼"x3½"—ideal for mobile installations, too. Shipping weight: approximately 2½ lb.

Tomorrow's Communications Equipment — *Today!*

On the reverse side of this folder you will find a complete description of the . . .

SR-34—world's first complete two and six meter radio station

Featuring a built-in, completely transistorized power supply, the SR-34 is another example of Hallicrafters leadership in pioneering new convenience, new pleasure, new standards of performance in amateur radio.



HT-32
Transmitter

Now proven superior – vastly superior – is Hallicrafters' exclusive 5.0 mc. quartz crystal filter system. First practical *high frequency* filter, provides unprecedented rejection of unwanted sideband–50 db. or more–and *world's cleanest signal.*

Another major advance: Bridged-Tee Modulator, temperature stabilized and compensated.

FEATURES: 5.0 mc. quartz crystal filter —rejection 50 db. or more. Bridged-tee sideband modulator. C.T.O. direct reading in kilocycles to less than 300 cycles from reference point. 144 watts plate input (P.E.P. two-tone). Six band output (80, 40, 20, 15, 11-10 meters). All modes of transmission—CW, AM, S.S.B. Unwanted sideband down 50 db. or more. Distortion products down 30 db. or more. Carrier suppression down 50 db. or more. Both sidebands transmitted on AM. Precision gear driven C.T.O. Exclusive Hallicrafters patented sideband selection. Logarithmic meter for accuracy tuning and carrier level adjustment. Ideal CW keying and break-in operation. Full voice control system built in.

FRONT PANEL CONTROLS, FUNCTIONS AND CONNECTIONS: Operation—power off, standby, Mox., Cal., Vox. Audio level 0-10. R.F. level 0-10. Final tuning 80, 40, 20, 15, 11-10 meters. Function—Upper side band, lower side band, DSB, CW. Meter compression. Calibration level 0-10. Driver tuning 0-5. Band selector—80, 40, 20, 15, 11-10 meters. High stability, gear driven V.F.O. with dial drag. Microphone connector. Key jack. Headphone monitor jack.

TUBES AND FUNCTIONS: 2-6146 Power output amplifier. 6CB6 Variable frequency oscillator. 12BY7 R. F. driver. 6AH6 2nd Mixer. 6AH6 3rd Mixer. 6AB4 Crystal oscillator. 12AX7 Voice control. 12AT7 Voice control. 6AL5 Voice control. 12AX7 Audio Amplifier. 12AU7 Audio amp and carrier Oscillator. 12AU7 Diode Modulator. 12AT7 Sideband selecting oscillator. 6AH6 1st Mixer. 6AH6 4.95 Mc. Amplifier. 6AU6 9.00 Mc. Amplifier. 5R4GY HV Rectifier. 5V4G LV Rectifier. OA2 Voltage Regulator.

REAR CHASSIS: Co-ax antenna connector. Line fuse. Control connector. AC power line cord. Cabinet 20″ wide, 10½″ high, and 17″ deep. Approximate shipping weight 86 lbs.

HT-33A
Linear Amplifier

MORE OUTPUT to the antenna than *any other linear amplifier*—that's the unqualified promise offered in the tremendous new HT-33A, latest addition to Hallicrafters' family of amateur rigs.

Beautifully engineered with extra-heavy-duty components, the HT-33A is *conservatively rated* at the maximum legal limit. You are guaranteed one of the big signals on the band, plus the effortless performance that means so much to efficiency and long life.

FREQUENCY COVERAGE: Complete coverage of amateur bands; 80, 40, 20, 15, 11-10 meters.

FEATURES: Rated *conservatively* at the maximum legal input. Highest output in the industry—more output to the antenna than any other linear amplifier. Third and fifth order distortion products down in excess of 30 db. Built-in r.f. output meter greatly simplifies tune-up. All important circuits metered. Maximum harmonic suppression obtained through pi-network. Variable output loading. Protection of power supply assured by circuit breaker. HT-33A is a perfect match to Hallicrafters' famous HT-32 in size, appearance and drive requirements.

CIRCUIT DETAILS: This power amplifier utilizes a PL-172 high efficiency pentode operating in class AB1 or AB2. The tube is grid-driven across a non-inductive resistor, thus assuring the maximum stability under all possible conditions. Band switching is accomplished by one knob which selects the proper inductance value for each band. The output circuit is a pi-network with an adjustable output capacitor so loads from 40 to 80 ohms may be accommodated. A d.c. milliameter may be switched to various circuits to measure the following: Cathode current, grid current, screen current, platevoltage, and r.f. voltage across the output line for tune-up.

TUBES: (1) PL-172 high power pentode; (2) 866AX rectifiers; (4) OA2 screen regulators.

FRONT PANEL CONTROLS: Meter selector; Filament switch; High Voltage switch; Bias adjustment; Band switch; Plate tuning; Plate loading.

PHYSICAL DATA: Gray and black steel cabinet (matches HT-32) with brushed chrome knob trim. Size: 8¾″ x 19″ (relay rack panel). Shipping wt. approx. 130 lb.

REAR CHASSIS: Co-ax input; co-ax output; filament and bias fuse; cutoff bias relay terminals; screen fuse; ground terminal.

SX-99
Receiver

FREQUENCY COVERAGE: Broadcast Band 540-1680 kc plus three short-wave bands covers 1680 kc-34 mc.

FEATURES: Over 1000° of calibrated electrical bandspread over the 10, 11, 15, 20, 40 and 80 meter amateur bands. Separate bandspread tuning condenser, crystal filter, antenna trimmer, "S" Meter, one r-f, two i-f stages.

INTERMEDIATE FREQUENCY: 455 kc.

TUNING ASSEMBLY AND DIAL DRIVE MECHANISM: Ganged, 3 section tuning capacitor assembly with electrical bandspread. Circular main tuning dial is calibrated in megacycles and has 0-100 logging scale.

AUDIO OUTPUT IMPEDANCE: 3.2 and 500 ohms. Headphone jack or front panel disables both.

CONTROLS: Antenna tuning, sensitivity, band selector, main tuning, bandspread tuning, volume, tone, standby, selectivity, crystal phasing, noise limiter.

BAND CHANGE MECHANISM: Ganged rotary wafer switch.

ANTENNA INPUT IMPEDANCE: Balanced/unbalanced. 50-300 ohms.

HEADPHONE OUTPUT IMPEDANCE: Universal.

EXTERNAL CONNECTIONS: Terminals for doublet or single wire antenna plus terminals for 3.2 and 500 ohm speakers on rear.

TUBE COMPLEMENT: Seven tubes plus one rectifier: 6SG7, r-f amplifier–6SA7, converter–6SG7, 1st i-f amplifier–6SK7, 2nd i-f amplifier–6SC7, BFO and audio amplifier–6K6GT, Audio output–6H6, ANL-AVC-detector–6Y3GT, rectifier.

AUDIO POWER OUTPUT: 2 watts.

POWER SUPPLY: 105/125 V. 50/60 cycle AC.

PHYSICAL DATA: Gray steel cabinet with brushed chrome trim and piano hinged top. Size 18½″ wide x 8⅞″ high x 10″ deep. Shipping weight approximately 36 lbs.

SX-100
Receiver

FREQUENCY COVERAGE: 540 kc—34 Mc. Band 1: 538 kc-1580 kc—Band 2: 1720 kc-4.9 Mc—Band 3: 4.6 Mc-13 Mc—Band 4: 12 Mc-34 Mc. Bandspread dial is calibrated for the 80, 40, 20, 15 and 11-10 meter amateur bands.

TYPE OF SIGNALS: AM—CW—SSB.

FEATURES: Selectable side band operation. "Tee-Notch" Filter—provides a stable non-regenerative system for the rejection of unwanted heterodyne. Also produces an effective steepening of the already excellent 500 Cycles i-f pass band and further increases the effectiveness of the advanced exalted carrier type reception. Notch depth control for maximum null adjustment. Antenna trimmer. Plug-in laboratory type evacuated 100 kc quartz crystal calibrator—included in price. Logging dials for both tuning controls. Full precision gear drive dial system. Second conversion oscillator crystal controlled—provides greater stability and additional temperature compensation of high frequency oscillator circuits. Phono jack. Socket for D.C. and remote control.

CONTROLS: Pitch control, reception, standby, phone jack, response control (upper and lower side band selector), antenna trimmer, notch depth, calibrator on/off, sensitivity, band selector, volume, tuning, AVC on/off noise limiter on/off, bandspread, selectivity.

INTERMEDIATE FREQUENCY: 1650 kc and 50 kc.

AUDIO OUTPUT IMPEDANCE: 3.2/500 ohms: **AUDIO POWER OUTPUT:** 1.5 watts with 10% or less distortion. **POWER SUPPLY:** 105/125 V., 50/60 cycle AC.

TUBE COMPLEMENT: 6CB6 R.F. amplifier; 6AU6, 1st converter; 6C4, H. F. oscillator; 6BA6, 2nd converter; 12AT7, Dual crystal second converters; (2) 6BA6, 50 kc and 1650 kc i-f amplifiers; 6BJ7, AVC-noise limiter; 6SC7, 1st audio and BFO; 6K6, Power output; 5Y3, Rectifier; OA2, Voltage regulator; 6C4, i-f amplifier—(50 kc); 6AU6, 100 kc XTAL marker.

PHYSICAL DATA: Gray black steel cabinet with brushed chrome knob trim, patterned silver back plate and red pointers. Piano hinge top. Size 18⅜″ wide x 8½″ high x 10⅝″ deep. Shipping weight approximately 42 lbs.

SX 96 (is without the Tee Notch Filter).

SX-101
Mark III Receiver

SX-101 MARK III is setting new standards for dependability and ruggedness throughout the amateur world. It's *all* amateur; provides complete coverage, and every technical feature desired for years to come.

FREQUENCY COVERAGE: Band 1–1.795-2.01 Mc. Band 2–3.48-4.02 Mc. Band 3–6.99-7.31 Mc. Band 4–13.98-14.415 Mc. Band 5–20.99-21.52 Mc. Band 6–26.9-29.8 Mc. Band 7–10 Mc. WWV.

FEATURES: Complete coverage of seven ham bands—160, 80, 40, 20, 15, 11-10 meters. Large slide rule dial. Band-in-use scales individually illuminated. Illuminated S-meter. Dual scale S-meter. S-meter zero point independent of sensitivity control. S-meter functions with AVC off. Special 10 Mc position for WWV. Dual conversion. Exclusive Hallicrafters upper-lower side band selection. Second conversion oscillators quartz crystal controlled. Tee-notch filter. Full gear drive from tuning knob to gang condensers–absolute reliability. 40:1 tuning knob ratio. Built-in precision 100 kc evacuated marker crystal. Vernier pointer adjustment. Five steps of selectivity from 500 cycles to 5000 cycles. Precision temperature compensation plus Hallicrafters exclusive production heat cycling for lowest drift. Direct coupled series noise limiter for improved noise reduction. Sensitivity–one microvolt or less on all bands. 52 ohm antenna input. Antenna trimmer. Relay rack panel. Heaviest chassis in the industry–.089 cold rolled steel. Double space gang condenser, 13 tubes plus voltage regulator and rectifier. Powerline fuse.

FRONT PANEL CONTROLS: Main tuning knob with 0-100 logging dial. Pointer reset, antenna trimmer, tee-notch frequency, tee-notch depth, sensitivity, band selector, volume, selectivity, pitch (BFO), response –(upper-lower-side band and tone). AVC on/off, BFO on/off, ANL on/off, Marker on/off, Rec./standby.

TUBES AND FUNCTIONS: 6CB6, R. F. amplifier – 6BY6, 1st converter – 12BY7A, high frequency oscillator–6BA6, 1650 kc i.f. amplifier–12AT7, dual crystal controlled 2nd conversion oscillator–6BA6, 2nd converter–6C4, 1st 50.5 kc. i.f. amplifier–6BA6, 2nd 50.5 kc. i.f. amplifier–6BJ7, detector, A.N.L., A.V.C.–6SC7, 1st audio amplifier & B.F.O.–6K6, audio power output–6BA6, S-meter amplifier–6AU6, ·100 kc. crystal oscillator–OA2, voltage regulator–5Y3, rectifier.

PHYSICAL DATA: 20″ wide, 10½″ high and 16″ deep—Panel size 8¾″ x 19″—weight approximately 74 lbs. (Conforms to F.C.D.A. specifications.)